CLAIMS

What is claimed is:

I	1. A composite reactor wall for a fluidized-flow gasifier, said reactor wall
2	comprising the following elements (a - f), arranged sequentially from an outside of
3	said reactor wall to an inside of said reactor wall:
4	a) a pressure shell (2), having an outer surface and an inner surface, and forming
5	an enclosed gasification chamber;
6	b) a ring-shaped gap (3), adjacent to at least a portion of said inner surface of
7	said pressure shell, through which gap a cooling medium is circulated;
8	c) a cooling wall (4), forming an inner wall of said ring shaped gap (3);
9	d) a thermally conductive ramming mass (5), adjacent to said cooling wall (4);
10	e) a solid layer of slag (6), adjacent to said thermally conductive ramming mass
11	(5); and
12	f) a liquid film of slag (7), adjacent to said solid layer of slag (7), and in contact
13	with reaction material in said gasification chamber of said gasifier.
1	2. The reactor wall according to claim 1, further comprising fixation means (8)
2	attached to said cooling wall (4) to provide separate means for holding said ramming
3	mass (5) in place.
1	3. The reactor wall according to claim 2, wherein said fixation means (8) is

4. The reactor wall according to claim 1, further comprising cooling medium-

selected from the group consisting of pins and anchors.

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- carrying half-tubes (9), which are attached to said pressure shell (2) to form said cooling wall (4).
- 5. The reactor wall according to claim 4, further comprising fixation means (8) for attaching said thermally conductive ramming mass (5) to said cooling medium-carrying half-tubes (9).
- 6. The reactor wall according to claim 5, wherein said fixation means (8) is selected from the group consisting of pins and anchors.
- 7. The reactor wall according to claim 4, wherein said cooling medium-carrying half tubes (9) have a cross-sectional shape selected from the group consisting of semi-circular and elliptical.
 - 8. The reactor wall according to claim 4, wherein said cooling medium is water.

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9. The reactor wall according to claim 1, wherein said ramming mass is silicon carbide.